

ALAN-N

REEL EXTRACTORS



APPLICATION

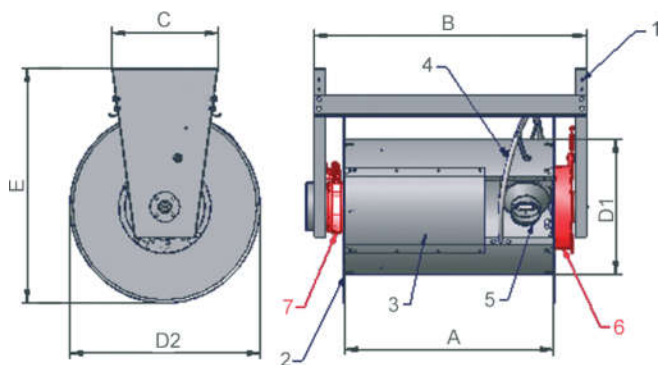
- removal of exhaust gas emitted by vehicles, at stationary service places, during the engine tests, adjustments and diagnostics
- for cars, medium-size vehicles, trucks, buses and motorbikes
- Automotive Service Stations, authorized service units, workshops, depots and automotive factories

FEATURES

- steel frame provides installing possibilities under the ceiling or wall mounting by means of additional L860 bracket
- hose reel with spring- or electric drive, for hose winding up
- spring driven reel is equipped with ratchet-gear and a band brake
- electric reel includes a slow-rotation tubular gear motor
- exhaust hose of diameters: 100, 125 or 150 mm and lengths 8 m or 12 m, ended with a nozzle
- cooperation with medium-pressure fans type FA, installed directly to the reel, or working with a series of fans type WPA-N
- option: automatic cut-off damper

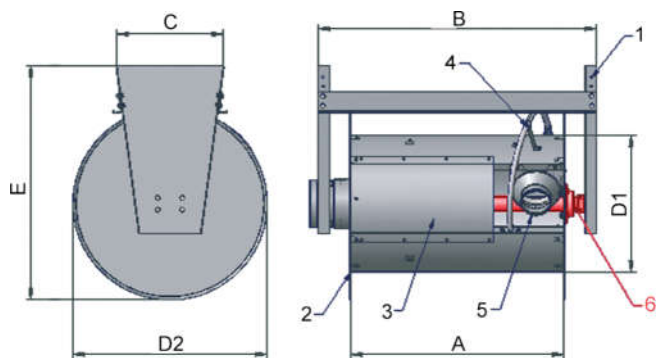
ADVANTAGES

- simple and ergonomic use
- compact construction
- ratchet gear – providing the hose blocking in a requested operational position
- wide range of hoses, of various diameters, lengths and thermal resistances
- hose of length up to 12 metres gives possibility of reaching the serviced vehicle within the wide work surface in the service station, or installing the extractor at a significant height
- simple, convenient and fast installing under the ceiling or at a wall
- possibility of implementation with a KOS-L self-tightening suction duct, as a mobile version



Spring drive		
Dimension	U/C-8-N	U/C-12-N
A	775	1000
B	1000	1225
C	355	355
D1	450	450
D2	645	645
E	780	780

1. Frame
 2. Reel
 3. Reel cover
 4. Spiral
 5. Connection fitting piece
 6. Spring mechanism
 7. Band brake



Electric drive		
Dimension	U/E-8-N	U/E-12-N
A	775	1000
B	1000	1225
C	355	355
D1	450	450
D2	645	645
E	780	780

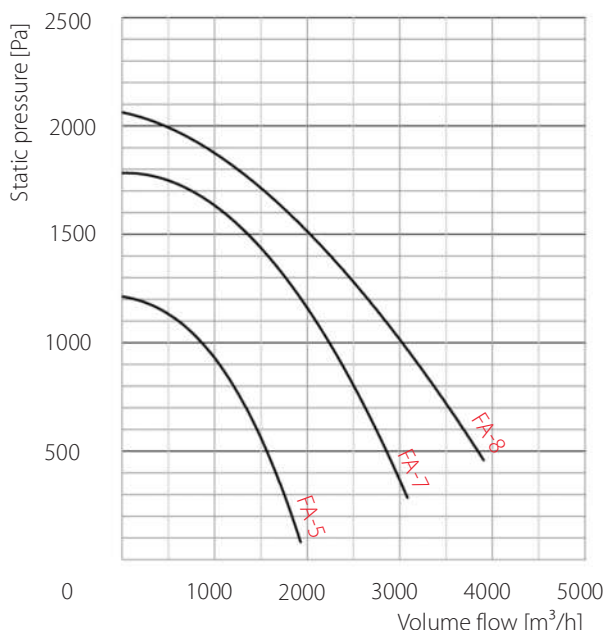
1. Frame
 2. Reel
 3. Reel cover
 4. Spiral
 5. Connection fitting piece
 6. Tubular gear motor

TECHNICAL DATA


	Type ¹	Equipped with a cut-off damper	Part No.	Maximum torque [Nm]	Maximum hose length [m]	Hose	Fan	Device weight ² [kg]		
	ALAN-U/C-8-N	no	805070	50	8	Each reel is adapted for fastening the hose of diameter: Ø100 mm, Ø125 mm or Ø150 mm.	The fan should be selected according to the hose diameter (see Table HOSE SETS).	51		
	ALAN/P-U/C-8-N	yes	805072							
	ALAN-U/E-8-N	no	805082	80	12			61		
	ALAN/P-U/E-8-N	yes	805088							
	ALAN-U/C-12-N	no	805071	50	12			Each reel is adapted for fastening the hose of diameter: Ø100 mm, Ø125 mm or Ø150 mm.	The fan should be selected according to the hose diameter (see Table HOSE SETS).	61
	ALAN/P-U/C-12-N	yes	805073							
	ALAN-U/E-12-N	no	805083	80	12	Each reel is adapted for fastening the hose of diameter: Ø100 mm, Ø125 mm or Ø150 mm.	The fan should be selected according to the hose diameter (see Table HOSE SETS).			54
	ALAN/P-U/E-12-N	yes	805089							

1. For selection of the suitable extractor size, contact KLIMAWENT S.A.
 2. Values are specified for the reel extractor without the weight of the hose.

FLOW CHARTS




FANS FOR REEL EXTRACTORS FOR DIRECT INSTALLATION AT THE REEL

	Type	Part No.	Supply voltage [V]; 50 Hz	Diameter: inlet/ outlet [mm]	Motor rate [kW]	Acoustic pressure level [dB(A)] ¹	Weight [kg]
	FA-5-1	804W72	230	160/160	0,37	55	17
	FA-5-3	804W73	3x400	160/160	0,37	55	17
	FA-7-1	804W74	230	160/200	1,1	72	24
	FA-7-3	804W75	3x400	160/200	1,1	72	24
	FA-8-3	804W76	3x400	160/200	1,5	74	31

1. Noise measurement was taken from 5 metres distance.


Other fans: flange fans WPA-E-N or roof fans WPA-D-N — see Section FANS.

RUBBER STOPPER

	Type	Part No.	Internal diameter [mm]
	ZO-100	804K40	100
	ZO-125	804K41	125
	ZO-150	804K42	150

Used for spring driven reels, installed on the hose.

WALL BRACKET

	Type	Part No.	Length [mm]	Weight of the set [kg]
	L860	817W33	950	12

A set adapted for installing at a wall or a column.

HOSE SETS

Type	Part No.	Hose diameter [mm]	Weight [kg]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances ¹ [Pa]	Thermal resistance [°C]	Application ⁴	Cooperating fans
ZW-8/100	828P64	100	5,2	8	400	1100	150 ²	SO	FA-5, WPA-5-E-N, WPA-5-D-N
ZW-8/100/CF	828P51	100	5,2	8	400	1100	300/150 ³	SO	
ZW-8/125	828P65	125	6,4	8	700	1200	150 ²	SD	FA-5, WPA-5-E-N, WPA-5-D-N
ZW-8/125/CF	828P52	125	6,4	8	700	1200	300/150 ³	SD	
ZW-8/150	828P66	150	7,6	8	1500	1500	150 ²	SC	FA-7, WPA-7-E-N, WPA-7-D-N
ZW-8/150/CF	828P53	150	7,6	8	1500	1500	300/150 ³	SC	
ZW-12/100	828P67	100	7,8	12	400	1500	150 ²	SO	FA-5, WPA-5-E-N, WPA-5-D-N
ZW-12/100/CF	828P54	100	7,8	12	400	1500	300/150 ³	SO	
ZW-12/125	828P68	125	9,5	12	700	1600	150 ²	SD	FA-7, WPA-7-E-N, WPA-7-D-N
ZW-12/125/CF	828P55	125	9,5	12	700	1600	300/150 ³	SD	
ZW-12/150	828P69	150	14,8	12	1500	2000	150 ²	SC	FA-8, WPA-8-E-N, WPA-8-D-N
ZW-12/150/CF	828P56	150	14,4	12	1500	2000	300/150 ³	SC	

1. Flow resistances are measured for the hose, wound up onto the reel.


2. Thermal resistance of the hose: +150°C (for short time +200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).

4. SO – cars; SD – medium size vehicles; SC – trucks.

CONTROL UNITS FOR THE ELECTRIC DRIVEN REEL EXTRACTORS TYPE E

ZE-ALAN control unit — to be installed on a garage wall or in another room, as requested by User. The unit provides possibility of switching ON/OFF of the fan (with motor protective switch) and hose winding UP and DOWN from the reel, using the buttons. Depending on the motor rate, the control unit is equipped with a selected motor switch. Features: short-circuit- and thermal protection. Additionally the unit provides protection against the accidental blocked start-up effects, overload, non-complete phase work in case of three-phase motors.

	Type	Part No.	Supply voltage [V]; 50 Hz	Motor rate [kW]	Current range [A]	Cooperating fans
	ZE-ALAN-U/E-6,3-1	816Z31	230	0,55	4,0–6,3	FA-5-1, WPA-5-D-1-N, WPA-5-E-1-N
	ZE-ALAN-U/E-1,6-3	816Z32	3x400	0,55	1,0–1,6	FA-5-3, WPA-5-D-3-N, WPA-5-E-3-N
	ZE-ALAN-U/E-10-1	816Z33	230	1,1	6,3–10	FA-7-1, WPA-7-D-1-N, WPA-7-E-1-N
ZE-ALAN-U/E-4-3	816Z34	3x400	1,1 i 1,5	2,5–4,0	FA-7-3, FA-8-3, WPA-7-D-3-N, WPA-8-D-3-N, WPA-7-E-3-N, WPA-8-E-3-N	

NOZZLES

Nozzles and suction stands, cooperating with the reel extractors – see separate catalogue card as they are additional equipment.

ALAN-HD-N

REEL EXTRACTORS



APPLICATION

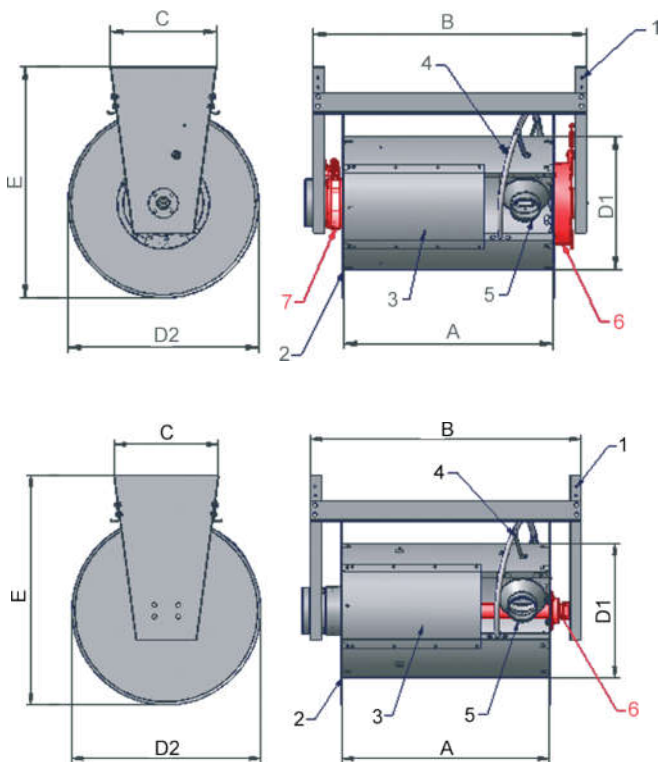
- extraction of exhaust gas volume emitted by vehicles, at stationary service stations, during the engine tests, adjustments and diagnostics
- especially applicable special vehicles, building construction machines, trucks with engines of extraordinarily high cubic capacity or engines which are submitted to overload tests
- in workshops, automotive service stations and automotive factories

FEATURES

- steel frame provides installing possibilities under the ceiling or wall mounting by means of an additional L860 bracket
- hose reel with spring- or electric drive, for hose winding up
- spring driven reel is equipped with ratchet-gear and a band brake
- electric reel includes a slow-rotation tubular gear motor
- exhaust hose of diameters: 200 mm and lengths 8 m, 10 m, 12 m, 15 m or 22 m, ended with a nozzle
- cooperation with medium-pressure fans type FA/HD, installed directly to the reel, or working with a series of fans type WPA-N

ADVANTAGES

- simple and ergonomic use
- compact construction
- ratchet gear – providing the hose blocking in a requested operational position
- wide range of exhaust hoses, of various diameters, lengths and thermal resistances
- exhaust hose of length up to 22 metres gives possibility of reaching the serviced vehicle within the wide work surface within the service station, or installing the extractor at a significant height
- installing possibilities: under the ceiling or at a wall



Spring drive		
Dimension	U/C-8-HD-N	U/C-12-HD-N
A	775	1200
B	1000	1465
C	455	455
D1	550	550
D2	820	820
E	965	965

1. Frame
 2. Reel
 3. Reel cover
 4. Spiral
 5. Connection fitting piece
 6. Spring mechanism
 7. Band brake

Electric drive			
Dimension	U/E-10-HD-N	U/E-15-HD-N	U/E-22-HD-N
A	1000	1200	2000
B	1225	1425	2240
C	455	455	455
D1	550	550	550
D2	820	820	820
E	965	965	965

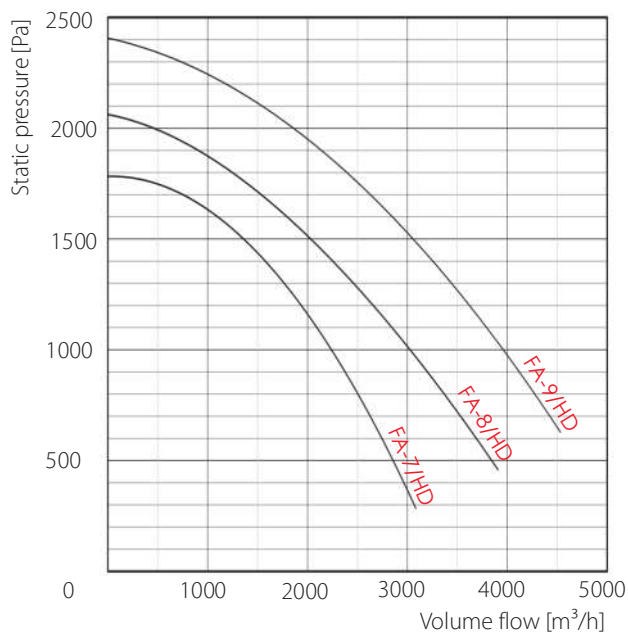
1. Frame
 2. Reel
 3. Reel cover
 4. Spiral
 5. Connection fitting piece
 6. Tubular gear motor

TECHNICAL DATA


	Type ¹	Equipped with a cut-off damper	Part No.	Maximum torque [Nm]	Maximum hose length [m]	Hose	Fan	Device weight ² [kg]
	ALAN-U/C-8-HD-N	no	805074	50	8	Each reel is adapted for fastening the hose of diameter: Ø200 mm.	The fan should be selected according to the hose diameter (see Table HOSE SETS).	68
	ALAN-U/C-12-HD-N	no	805075	100	12			90
	ALAN-U/E-10-HD-N	no	805085	80	10			65
	ALAN-U/E-15-HD-N	no	805086	100	15			69
	ALAN-U/E-22-HD-N	no	805087	120	22			95

- 1. For selection of the suitable reel extractor size, contact KLIMAWENT S.A.
- 2. Values are specified for the reel extractor without the weight of the hose.

FLOW CHARTS




FANS FOR REEL EXTRACTORS FOR DIRECT INSTALLATION AT THE REEL

	Type	Part No.	Supply voltage [V]; 50 Hz	Diameter: inlet/ outlet [mm]	Motor rate [kW]	Acoustic pressure level [dB(A)] ¹	Weight [kg]
	FA-7-1/HD	804W77	230	200/200	1,1	72	24
	FA-7-3/HD	804W78	3x400	200/200	1,1	72	24
	FA-8-3/HD	804W79	3x400	200/200	1,5	74	31
	FA-9-3/HD	804W80	3x400	200/200	2,2	77	38

1. Noise measurement was taken from 5 metres distance.


Other fans: flange fans WPA-E-N, roof fans WPA-D-N – see Section FANS.

RUBBER STOPPER

	Type	Part No.	Internal diameter [mm]
	ZO-200	804K39	200


Used for spring driven reels, installed on the hose.

WALL BRACKET

	Type	Part No.	Length [mm]	Weight of the set [kg]
	L860	817W33	950	12

A set adapted for installing at a wall or a column.

HOSE SETS

	Type	Part No.	Hose diameter [mm]	Weight [kg]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances ¹ [Pa]	Odporność termiczna [oC]	Cooperating fans
	ZW-8/200	828P80	200	10,4	8	2000	1000	150 ²	FA-7/HD, WPA-7-E-N, WPA-7-D-N
	ZW-10/200	828P81	200	12,8	10	2000	1200	150 ²	FA-7/HD, WPA-7-E-N, WPA-7-D-N
	ZW-12/200	828P82	200	15,3	12	2000	1500	150 ²	FA-8/HD, WPA-8-E-N, WPA-8-D-N
	ZW-15/200	828P83	200	19	15	2000	1900	150 ²	FA-9/HD, WPA-9-E-N, WPA-9-D-N ³
	ZW-22/200	828P84	200	28,1	22	2000	2100	150 ²	WPA-10-E-N, WPA-10-D-N ³


1. Flow resistances are measured for the hose, wound up onto the reel.

2. Thermal resistance of the hose: +150°C (for short time +200°C).

3. For performances of the fans – see Section FANS.

CONTROL UNITS FOR THE ELECTRIC DRIVEN REEL EXTRACTORS TYPE E

ZE-ALAN control unit — to be installed on a garage wall or in another room, as requested by User. The unit provides possibility of switching ON/OFF of the fan (with motor protective switch) and hose winding UP and DOWN from the reel, using the buttons. Depending on the motor rate, the control unit is equipped with a selected motor switch. Features: short-circuit- and thermal protection. Additionally the unit provides protection against the accidental blocked start-up effects, overload, non-complete phase work in case of three-phase motors.

	Type	Part No.	Supply voltage [V]; 50 Hz	Motor rate [kW]	Current range [A]	Cooperating fans
	ZE-ALAN-U/E-10-1	816Z33	230	1,1	6,3–10	FA-7-1/HD, WPA-7-D-1-N, WPA-7-E-1-N
	ZE-ALAN-U/E-4-3	816Z34	3x400	1,1 i 1,5	2,5–4,0	FA-7-3/HD, FA-8-3/HD, WPA-7-D-3-N, WPA-8-D-3-N, WPA-7-E-3-N, WPA-8-E-3-N
	ZE-ALAN-U/E-6,3-3	816Z35	3x400	2,2	4–6,3	FA-9-3/HD, WPA-9-E-N, WPA-9-D-N
	ZE-ALAN-U/E-10-3	816Z38	3x400	3,0	6,3–10	WPA-10-E-N, WPA-10-D-N

NOZZLES

Nozzles and suction stands, cooperating with the reel extractors – see separate catalogue card as they are additional equipment.

OBS/P

STATIONARY BALANCING EXTRACTORS



APPLICATION

- discharge of exhaust gas emitted by vehicles, during the engine tests, adjustments and diagnostics
- for cars, medium-size vehicles, trucks, buses and motorbikes
- in Automotive Service Stations, authorized service units, workshops, depots and automotive factories

FEATURES

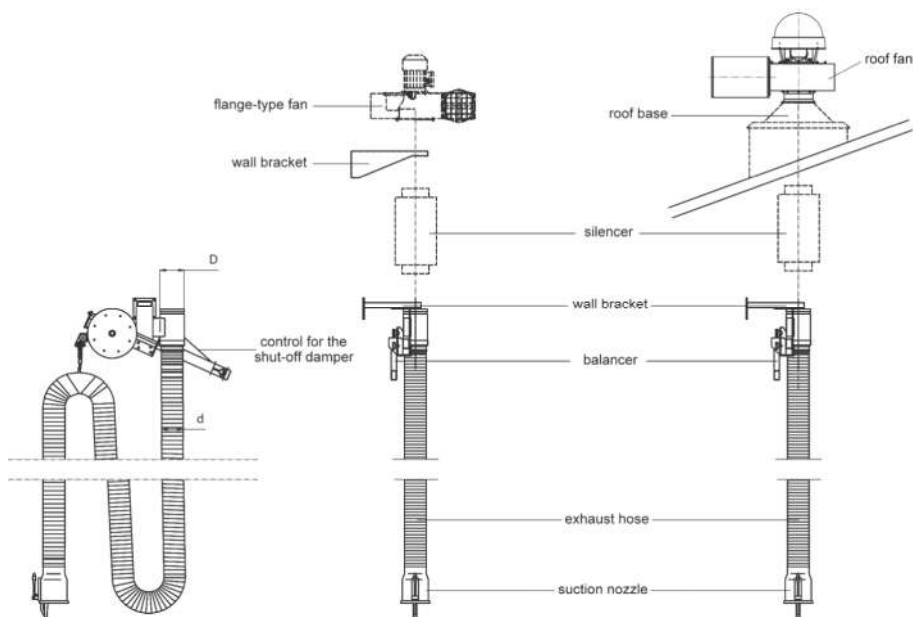
- tubular body with a ceiling hanger or wall bracket
- automatic cut-off damper
- balancer with a ratchet gear, to lift the hose
- hose: diameters 100 mm, 125 mm or 150 mm and length 6 m or 9 m, ended with a nozzle
- cooperation with medium-pressure fans, of WPA-N series of types



ADVANTAGES

- simple and ergonomic use
- compact construction
- ratchet gear for easy blockage of the hose in the requested position
- selection of hoses of various diameters, lengths and thermal resistances
- easy and fast installing to the ceiling or wall
- option: nozzle with a cable for automatic release from the exhaust pipe

EXAMPLE OF APPLICATION WITH THE FAN



Elements illustrated with interrupted line do not belong to the system.
On demand we offer ventilation accessories (roof base, silencer, etc.).

TECHNICAL DATA

Type ¹	Part No.	Hose diameter (d) [mm]	Hose length [m]	Thermal resistance [°C]	Recommended volume flow [m ³ /h]	Flow resistances [Pa]	Connection diameter (D) [mm]	Weight [kg]	Application ⁴	Cooperating fans
OBS/P-100-6	805O26	100	6	150 ²	400	800	160	21,9	SO	WPA-5-E-N, WPA-5-D-N
OBS/P-100-6/CF	805O16	100	6	300/150 ³	400	800	160	21,9	SO	
OBS/P-125-6	805O27	125	6	150 ²	700	1000	160	22,9	SD	WPA-5-E-N, WPA-5-D-N
OBS/P-125-6/CF	805O17	125	6	300/150 ³	700	1000	160	22,9	SD	
OBS/P-150-6	805O28	150	6	150 ²	1500	1200	160	24,3	SC	WPA-7-E-N, WPA-7-D-N
OBS/P-150-6/CF	805O18	150	6	300/150 ³	1500	1200	160	24,3	SC	
OBS/P-125-9	805O29	125	9	150 ²	700	1200	160	32,1	SD	WPA-6-E-N, WPA-6-D-N
OBS/P-125-9/CF	805O19	125	9	300/150 ³	700	1200	160	32,1	SD	
OBS/P-150-9	805O30	150	9	150 ²	1500	1500	160	34,3	SC	WPA-8-E-N, WPA-8-D-N
OBS/P-150-9/CF	805O20	150	9	300/150 ³	1500	1500	160	34,3	SC	

- For selection of the extractor size contact KLIMAWENT S.A.
- Hose of thermal resistance: 150°C (for short time 200°C).
- Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).
- SO – cars; SD – medium size vehicles; SC – trucks.

WALL BRACKET

	Type	Part No.
	WB-OBS	817W21

CEILING HANGER

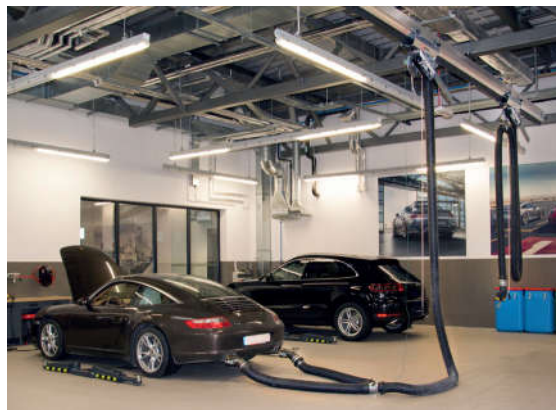
	Type	Part No.
	CB-OBS	817W22

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

KOS-AL, OBP/P-AL

RAIL EXTRACTION SYSTEMS



APPLICATION

- exhaust fumes control, by means of a balancing mobile extractor OBP/P-AL or mobile extractor OP-AL, displacing along the self-tightening suction duct KOS-AL


FEATURES

- aluminium segments – lengths 2 m and 4 m
- extractor trolley with a balancer and a hose with nozzle clamped at the vehicle exhaust pipe
- trolley is equipped with an automatic cut-off damper
- the extractor is equipped with a balancer and a ratchet gear
- possibility of automatic disengagement of the nozzle

ADVANTAGES

- the system provides possibility of adjustment the extractor position towards the exhaust pipe of the served vehicle
- one extractor can serve several extraction stands
- automatic nozzle release from the exhaust pipe, while the vehicle moves along

MOBILE BALANCING EXTRACTOR

	Type ¹	Part No.	Hose diameter [mm]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances [Pa]	Thermal resistance [°C]	Application ⁴	Weight [kg]
	OBP/P-AL-100-6	805O31	100	6	400	900	150 ²	SO	35,8
OBP/P-AL-100-6/CF	805O06	100	6	400	900	300/150 ³	SO	35,8	
OBP/P-AL-125-6	805O32	125	6	700	1000	150 ²	SD	36,7	
OBP/P-AL-125-6/CF	805O07	125	6	700	1000	300/150 ³	SD	36,7	
OBP/P-AL-150-6	805O33	150	6	1500	1700	150 ²	SC	37,6	
OBP/P-AL-150-6/CF	805O08	150	6	1500	1700	300/150 ³	SC	37,6	


1. For selection of the extractor size contact KLIMAWENT S.A.

2. Hose of thermal resistance: 150°C (for short time 200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).


4. SO – cars; SD – medium size vehicles; SC – trucks.

SELF-TIGHTENING SUCTION DUCT

	Type	Part No.	Segment length [m]	Section [cm ²]	Segment weight [kg]
	KOS-AL-2	804K43	2	290	19,4
	KOS-AL-4	804K44	4	290	38,8

Maximum temperature of the conveyed medium 200°C.

MOBILE EXTRACTORS – without balancers – the hose should be released manually, no limits for hose lengths

	Type ¹	Part No.	Hose diameter [mm]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances [Pa]	Thermal resistance [°C]	Application ⁴	Weight [kg]
	OP-AL-100-6	804035	100	6	400	700	150 ²	SO	11,8
	OP-AL-100-6/CF	804084	100	6	400	700	300/150 ³	SO	11,8
	OP-AL-125-6	804036	125	6	700	800	150 ²	SD	12,7
	OP-AL-125-6/CF	804085	125	6	700	800	300/150 ³	SD	12,7
	OP-AL-150-6	804037	150	6	1500	1500	150 ²	SC	13,6
OP-AL-150-6/CF	804086	150	6	1500	1500	300/150 ³	SC	13,6	



1. For selection of the extractor size contact KLIMAWENT S.A.

2. Hose of thermal resistance: 150°C (for short time 200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).



4. SO – cars; SD – medium size vehicles; SC – trucks.

CONNECTION FITTING PIECES*

Sort of the connection		Type	Part No.	Diameter [mm]
	for axial connection	KPC	804K20	160
	universal connection	KTSU-200	804K79	200

* For connection between the suction duct and the discharge ducting.

DUCT HANGER

Sort of the hanger		Type	Part No.	Remarks
	ceiling hanger	Z	804K29	Hangers are fastened to the duct by bolting. Distances between the hangers should not exceed 3 metres.
	wall hanger	L	804K27	

DUCT CLOSING PLATE*


	Type	Part No.
	PZC	804K22

* To be installed at the front end of the first segment and at the terminal end of the last segment.

SEGMENT CONNECTOR

	Type	Part No.
	KSG	804K21

DUCT SEGMENT JOINT

Type		Part No.	Remarks
	STK	804K30	To slow down the movements of the extractor trolley at the end position on the duct.

FANS

Fans should be selected with reference to separate catalogue cards, depending on the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

KOS-L, OBP/P

RAIL EXTRACTION SYSTEMS



APPLICATION

- exhaust fumes discharge, by means of a balancing mobile extractor OBP/P, displacing along the self-tightening suction duct KOS-L

FEATURES

- steel segments – lengths 1,25 m and 2,5 m
- extractor trolley with an exhaust hose
- trolley is equipped the an automatic cut-off damper
- the extractor is equipped with a balancer and a ratchet gear
- nozzle
- possibility of automatic disconnection of the nozzle

ADVANTAGES

- the system provides possibility of adjustment the extractor position towards the exhaust pipe of the served vehicle
- due to significant cross-section of the duct, the system is especially efficient in application for trucks

MOBILE BALANCING EXTRACTOR

	Type ¹	Part No.	Hose diameter [mm]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances [Pa]	Thermal resistance [°C]	Application ⁴	Weight [kg]
	OBP/P-100-6	805O34	100	6	400	900	150 ²	SO	26,7
	OBP/P-100-6/CF	805O58	100	6	400	900	300/150 ³	SO	26,7
	OBP/P-125-6	805O35	125	6	700	1000	150 ²	SD	28,7
	OBP/P-125-6/CF	805O59	125	6	700	1000	300/150 ³	SD	28,7
	OBP/P-150-6	805O36	150	6	1500	1700	150 ²	SC	29,8
	OBP/P-150-6/CF	805O60	150	6	1500	1700	300/150 ³	SC	29,8
	OBP/P-125-9	805O37	125	9	700	1300	150 ²	SD	35,7
	OBP/P-125-9/CF	805O61	125	9	700	1300	300/150 ³	SD	35,7
	OBP/P-150-9	805O38	150	9	1500	1900	150 ²	SC	38,3
	OBP/P-150-9/CF	805O62	150	9	1500	1900	300/150 ³	SC	38,3

1. For selection of the extractor size contact KLIMAWENT S.A.

2. Hose of thermal resistance: 150°C (for short time 200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section – thermal resistance: +150°C (for short time +200°C).



4. SO – cars; SD – medium size vehicles; SC – trucks.

SELF-TIGHTENING SUCTION DUCT

	Type	Part No.	Segment length [m]	Cross-section dimensions [mm]	Cross-sectional area [cm ²]	Unit weight [kg/m]	Segment weight [kg]
	KOS-L	804K45	1,25	160x240	384	14,2	17,75
		804K46	2,5	160x240	384	14,2	35,5



Maximum temperature of the conveyed medium 200°C.

CONNECTION FITTING PIECES*

Sort of the connection	Type	Part No.	Diameter [mm]
 for axial connection	KO	804K70	200
 universal connection	KTSU-200	804K79	200

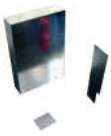
* For connection between the suction duct and the discharge ducting.

DUCT ENDING SET*


Sort of the ending	Type	Part No.	Remarks
	ZKL	804K76	left ending set
	ZKP	804K77	right ending set

* To be installed at the front end of the first segment and at the terminal end of the last segment.

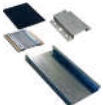
DUCT END CLOSING

	Type	Part No.	Remarks
	ZK	804K87	to install at the duct terminal, in case when the axial connection is not applied


DUCT SEGMENT JOINT

	Type	Part No.	Remarks
	ZSK	804K75	a set of elements used to integrate the two subsequent segments of the duct


DUCT HANGER SET

	Type	Part No.	Remarks
	ZWK	804K82	to install the duct under the wall hanger set

WALL HANGER SET

	Type	Part No.	Remarks
	WPK-2	804K86	used for installing the duct system to the wall or to a column

RUBER STOPPER

	Type	Part No.	Remarks
	ZG	804K31	installed at the terminal positions of the duct

FANS

Fans should be selected with reference to separate catalogue cards, depending on the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

KOS-C, OP

RAIL EXTRACTION SYSTEMS



APPLICATION

- exhaust fumes extraction from special vehicles, among others, military
- exhaust volume discharge, by means of a mobile extractor OP, displacing along the self-tightening suction duct KOS-C

FEATURES


- steel segments of length 2,5 m
- possibility of connection of hoses of various lengths and diameters
- the extractor can be equipped with a balancing device for hose lifting
- possibility of installing the oil separator

ADVANTAGES

- the system provides possibility of adjustment the extractor position towards the exhaust pipe of the served vehicle
- due to significant cross-section of the duct, the system is especially efficient in application for heavy vehicles, among them, tanks




MOBILE EXTRACTOR

	Type ¹	Part No.	Hose diameter [mm]	Recommended volume flow [m ³ /h]	Remarks	Weight [kg]
	OP-200	804097	200	2000	type and length of the hose should be selected with reference to the specific application	32,8
	OP-250	804098	250	2500		32,2
	OP-315	804099	315	3000		31,1


1. For selection of the extractor size contact KLIMAWENT S.A.

SELF-TIGHTENING SUCTION DUCT

	Type	Part No.	Segment length [m]	Cross-section dimensions [mm]	Cross-sectional area [cm ²]	Unit weight [kg/m]	Segment weight [kg]
	KOS-C	804K49	2,5	200x300	600	22,6	56,5



Maximum temperature of the conveyed medium 200°C.

CONNECTION FITTING PIECES*

Sort of the connection	Type	Part No.	Diameter [mm]	
	axial connector	KO-315	804K88	315

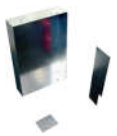
* For connection between the suction duct and the discharge ductwork.

DUCT ENDING SET*


Sort of the ending	Type	Part No.	Remarks
	ZKL-KOS-C	804K84	left ending set
	ZKP-KOS-C	804K96	right ending set

* To be installed at the front end of the first segment and at the terminal end of the last segment (of the duct).

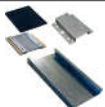
DUCT END CLOSING

	Type	Part No.	Remarks
	ZK-KOS-C	804K97	to install at the duct terminal, in case when the axial connection is not applied

DUCT SEGMENT JOINT

	Type	Part No.	Remarks
	ZSK-KOS-C	804K98	a set of elements used to integrate the two subsequent segments of the self-tightening duct

DUCT HANGER SET

	Type	Part No.	Remarks
	ZWK-KOS-C	804K69	to mount the duct under the wall hanger set

RUBER STOPPER

	Type	Part No.	Remarks
	ZG-KOS-C	804K83	installed at the terminal positions of the duct

FANS

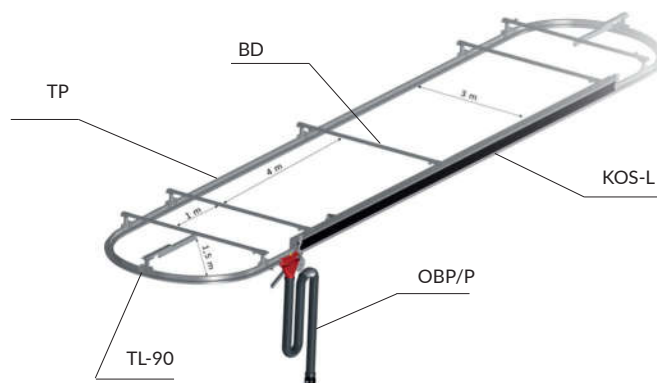
Fans should be selected with reference to separate catalogue cards, with reference to the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

KOS-L-N

RETURNING RAIL EXTRACTION SYSTEM



APPLICATION

- exhaust volume capturing, by means of a mobile extractor OBP/P, displacing along the self-tightening suction duct KOS-L
- manufacturing lines, bus depots

FEATURES

- self-tightening suction duct KOS-L
- returning rail – 4 arches TL-90
- straight rail
- spacing beam

ADVANTAGES

- construction gives possibility to return the trolley to home position
- the system provides possibility of adjustment the extractor position towards the exhaust pipe of the served vehicle
- one extractor trolley can serve several extraction stands as a row of vehicles

RETURN RAIL

Type	Part No.	Segment dimension [m]	Segment weight [kg]	Remarks	
Return rail	TP	804K51	length 2,5	30	quantity of segments is depended on the length of KOS-L
Arc of the return rail 90°	TL-90	804K53	radius 1,5	37	the set consists of 4 arches
Spacing profile	BD	804K54	length 3	21	distance between the beams is approx. 4 m

SELF-TIGHTENING SUCTION DUCT

Type	Part No.	Segment length [m]	Cross-section dimensions [mm]	Cross-sectional area [cm ²]	Unit weight [kg/m]	Segment weight [kg]
KOS-L	804K45	1,25	160x240	384	14,2	17,75
	804K46	2,5	160x240	384	14,2	35,5

Maximum temperature of the conveyed medium 200°C.

MOBILE BALANCING EXTRACTOR

Type ¹	Part No.	Hose diameter [mm]	Hose length [m]	Recommended volume flow [m ³ /h]	Flow resistances [Pa]	Thermal resistance [°C]	Application ⁴	Weight [kg]
OBP/P-100-6	805O34	100	6	400	900	150 ²	SO	26,7
OBP/P-100-6/CF	805O58					300/150 ³		
OBP/P-125-6	805O35	125	6	700	1000	150 ²	SD	28,7
OBP/P-125-6/CF	805O59					300/150 ³		
OBP/P-150-6	805O36	150	6	1500	1700	150 ²	SC	29,8
OBP/P-150-6/CF	805O60					300/150 ³		
OBP/P-125-9	805O37	125	9	700	1300	150 ²	SD	35,7
OBP/P-125-9/CF	805O61					300/150 ³		
OBP/P-150-9	805O38	150	9	1500	1900	150 ²	SC	38,3
OBP/P-150-9/CF	805O62					300/150 ³		

1. For selection of the extractor size contact KLIMAWENT S.A.

2. Hose of thermal resistance: 150°C (for short time 200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).

4. SO – cars; SD – medium size vehicles; SC – trucks.

For connection fitting piece, segment joint set and duct hangers – see catalogue card KOS-L.

FANS

Fans should be selected with reference to separate catalogue cards, depending on the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

KOS-L-ALAN-N

RAIL EXTRACTION SYSTEM WITH A REEL EXTRACTOR



APPLICATION

- exhaust extraction – by means of a spring-driven mobile extractor, displacing along the suction duct

FEATURES

- the system consists of a standard self-tightening suction duct and a mobile reel extractor

ADVANTAGES

- the system provides possibility of adjustment the extractor position towards the exhaust pipe of the served vehicle
- one extractor set can be used for several extraction posts
- easy hose blockage, to adjust the nozzle position towards the exhaust pipe of the vehicle

SELF-TIGHTENING SUCTION DUCT

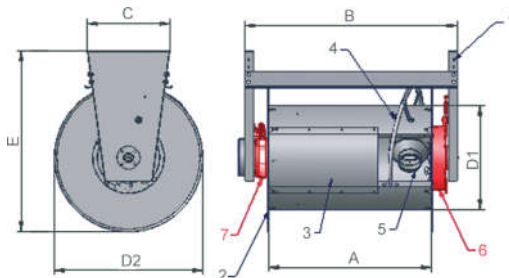
	eTyp	Part No.	Segment length [m]	Cross-section dimensions [mm]	Cross-sectional area [cm ²]	Unit weight [kg/m]	Segment weight [kg]
	KOS-L	804K45	1,25	160x240	384	14,2	17,75
		804K46	2,5	160x240	384	14,2	35,5

Accessories of the KOS-L self-tightening suction duct – see catalogue card KOS-L, OBP/P.
Maximum temperature of the conveyed medium 200°C.

MOBILE REEL EXTRACTOR

	Type ¹	Equipped with a cut-off damper	Part No.	Maximum torque [Nm]	Hose	Weight ² [kg]
	OP-ALAN-U/C-8-N	no	805076	50	Each reel is adapted for fastening the hose of diameter: Ø100, Ø125 or Ø150 mm and of lengths 8 or 12 m. Selection of the hose set – see catalogue card ALAN-N.	61,7
	OP-ALAN/P-U/C-8-N	yes	805078	50		61,7
	OP-ALAN-U/C-12-N	no	805077	50		63,7
	OP-ALAN/P-U/C-12-N	yes	805079	50		63,7

1. Prior to selection of the suitable extractor type – contact KLIMAWENT S.A.
2. The values do not include the weight of the hose set.



Spring drive		
Dimension	U/C-8-N	U/C-12-N
A	775	1000
B	1000	1225
C	355	355
D1	450	450
D2	645	645
E	780	780

1. Frame
2. Reel
3. Reel cover
4. Spiral
5. Connection fitting piece
6. Spring mechanism
7. Band brake

FANS

Fans should be selected with reference to separate catalogue cards, depending on the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the extractors – see separate catalogue card as they are additional equipment.

RO-4-ALAN-N

EXTRACTION SYSTEM



APPLICATION

- designed for efficient extraction of the poisonous and noxious chemical compounds contained in exhaust gas, emitted by vehicles during diagnostics, adjustment, engine tests, etc.

FEATURES

- the system consists of the RO-4-E-LY extension arm and the ALAN-U/C-N reel extractor
- the extractor is equipped with a hose of length 8 m or 12 m
- the extractor is suspended under the extension arm by means of seam-spiral ducts and elbows

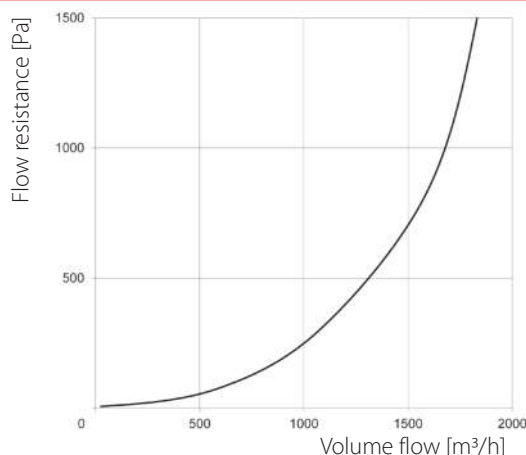
ADVANTAGES

- simple use
- very high efficiency of exhaust extraction
- high ergonomcy solution provides wide surface of service within the workshop

EXTENSION ARM RO-4-ALAN-N

Type	Part No.	Connection diameter [mm]	Maximum workrange [m]	Maximum torque M [Nm]	Weight [kg]
RO-4-ALAN-U/C-8-N	805O80	160	3850	3100	145
RO-4-ALAN-U/C-12-N	805O81	160	3850	3100	150

FLOW CHARTS



TECHNICAL DATA

	Type ¹	Equipped with a cut-off damper	Part No.	Maximum torque [Nm]	Maximum hose length [m]	Hose	Weight of the device ² [kg]
	ALAN-U/C-8-N	no	805O70	50	8	Each reel is adapted for fastening the hose of diameter: Ø100, Ø125 or Ø150 mm. Selection of the hose set – see catalogue card ALAN-N.	51
	ALAN/P-U/C-8-N	yes	805O72	50	8		51
	ALAN-U/C-12-N	no	805O71	50	12		61
	ALAN/P-U/C-12-N	yes	805O73	50	12		61

1. Prior to selection of the suitable extractor size – contact KLIMAWENT S.A.

2. The values do not include the weight of the hose set.

FANS

Fans should be selected with reference to separate catalogue cards, depending on the volume flow and flow resistances.

NOZZLES

Nozzles and suction stands, cooperating with the exhaust extractors – see separate catalogue card as they are additional equipment.

GLOBAL

HANGING EXTRACTORS



APPLICATION

- removal of exhaust gas from vehicles, during the diagnostics, adjustment, etc.
- applied in depots, garages, diagnostics stations and Automotive Service Stations

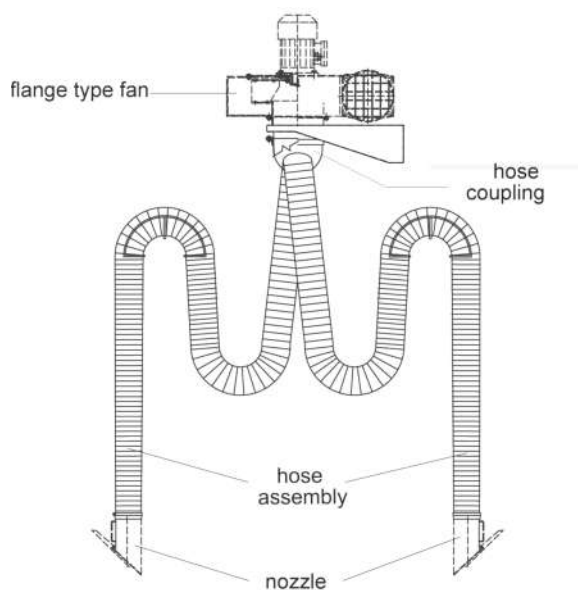
FEATURES

- composition: wall bracket, double- or single connection fitting piece to connect the hose; at the hose end is fastened a nozzle (to connect to the exhaust pipe of the served vehicle)
- application: cars, medium-size vehicles, trucks
- cooperation with a fan that is installed in the process hall, or within the ventilation system

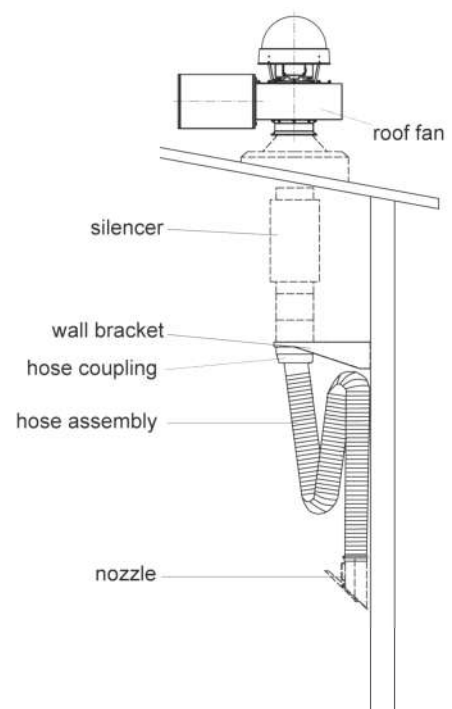
ADVANTAGES

- low price
- easy use
- efficient volume flow
- simple installing

Example of hanging extractor applied with flange type fan





Example of hanging extractor applied with a roof fan



Elements drawn with interrupted line – are not included in the system.
On demand we offer ventilation accessories (roof base, silencer, etc.).

TECHNICAL DATA

Type ¹	Part No.	Quantity of connectors	Diameter [mm]	Hose length [m]	Recommended volume flow [m ³ /h]	Thermal resistance [°C]	Application ⁴	Cooperating fans	Weight [kg]	
	GLOBAL H-1-100	803O32	1	100	5	400	150 ²	so	WPA-3-E-N	37,5
	GLOBAL H-1-100/CF	803O37	1	100	5	400	300/150 ³	SO	WPA-3-E-N	37,5
	GLOBAL H-1-125	803O33	1	125	5	700	150 ²	sd	WPA-5-E-N, WPA-5-D-N, WPA-6-E-N, WPA-6-D-N	40
	GLOBAL H-1-125/CF	803O38	1	125	5	700	300/150 ³	SD	WPA-5-E-N, WPA-5-D-N, WPA-6-E-N, WPA-6-D-N	40
	GLOBAL H-1-150	803O34	1	150	5	1500	150 ²	sc	WPA-5-E-N, WPA-5-D-N, WPA-6-E-N, WPA-6-D-N	50
	GLOBAL H-1-150/CF	803O39	1	150	5	1500	300/150 ³	SC	WPA-5-E-N, WPA-5-D-N, WPA-6-E-N, WPA-6-D-N	50
	GLOBAL H-2-100	803O35	2	100	2x5	800	150 ²	so	WPA-5-E-N, WPA-5-D-N	50
	GLOBAL H-2-100/CF	803O40	2	100	2x5	800	300/150 ³	SO	WPA-5-E-N, WPA-5-D-N	50
	GLOBAL H-2-125	803O36	2	125	2x5	1400	150 ²	sd	WPA-6-E-N, WPA-6-D-N	60
	GLOBAL H-2-125/CF	803O41	2	125	2x5	1400	300/150 ³	SD	WPA-6-E-N, WPA-6-D-N	60

1. Prior to selection of the appropriate extractor size – contact KLIMAWENT S.A.



2. Thermal resistance of the hose: +150°C (for short time +200°C).

3. Hose section of length 2 metres (near the nozzle) is of thermal resistance +300°C (for short time +350°C); the further hose section — thermal resistance: +150°C (for short time +200°C).

4. SO – cars; SD – medium size vehicles; SC – trucks.

Composition of the extractor: hose with clamps and clamp covers, as well as installing accessories — wall bracket, connection fitting pieces (single or double), wall hanger for the hose.

FANS

Type	Part No.	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Weight [kg]	
	WPA-3-E-1-N	804W00	230	0,37	54	14
	WPA-5-E-1-N	804W01	230	0,55	54	17
	WPA-6-E-1-N	804W03	230	0,75	54	24
	WPA-5-D-1-N	807W11	230	0,55	54	25
	WPA-6-D-1-N	807W13	230	0,75	54	32

Motor protective switches are described on separate catalogue cards ELECTRICAL EQUIPMENT.

NOZZLES

Nozzles and suction stands, cooperating with the exhaust extractors – see separate catalogue card as they are additional equipment.

GEPARD

PORTABLE EXHAUST EXTRACTORS

APPLICATION

- removal of exhaust gas from vehicles, during the diagnostics, adjustment, etc.
- for vehicles with the exhaust pipe at the side or behind the carbody
- GEPARD-1000 – cars and medium-size vehicles
- GEPARD-2000 – trucks

FEATURES

- medium-pressure fan in spiral steel housing
- fan inlet is equipped with a „S“ shape suction tube (installed ex-centrally)
- fan outlet – adapted for connection of the hose, to discharge the exhaust volume outside the building
- frame
- built-on ON/OFF switch, with 5 metres long cable, with a plug

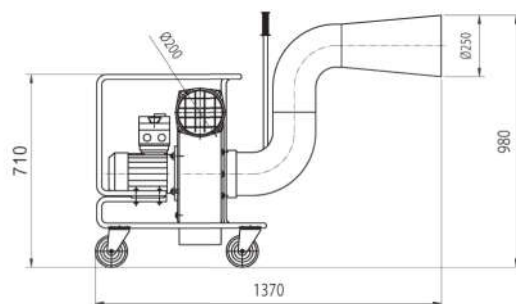
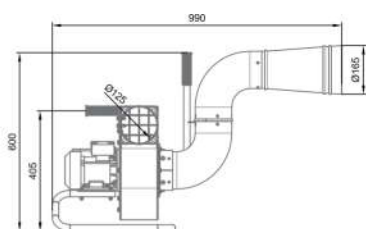


GEPARD-1000

GEPARD-2000

ADVANTAGES

- compact construction
- mobility
- high disposable pressure – it is possible to connect a hose of length of several meters
- contactless connection of the suction tube with the vehicle exhaust pipe



TECHNICAL DATA

Type	Part No.	Volume flow [m ³ /h]	Supply voltage [V]	Motor rate [kW]	Weight [kg]	Outlet diameter [mm]
GEPARD-1000	803O20	1000	230	0,37	25	125
GEPARD-2000	803O21	2000	230	1,1	48	200

Prior to selection of the appropriate extractor size – contact KLIMAWENT S.A.

ADDITIONAL EQUIPMENT

HOSES










Type	Part No.	Diameter [mm]	Temperature range [°C]	Remarks
	G-EX1-125	828P61	from -20 up to +50 (for short time up to 200)	External plastic spiral, hose walling is of neoprene-coated polyester fabric – do not undergo permanent deformation.
	G-EX1-200	828P63		
	MCS-125	828P33	from -20 up to +50 (for short time up to 200)	Zinc-coated external spiral, hose walling hardly flammable – of PVC-coated glass fibre.
	MCS-200	828P35		
	ST/MP-125	863P93	from -30 up to +120	Without external spiral. PVC-coated glass fabric is wound upon the internal steel spiral.
	ST/MP-200	863P95		

* Measured upon supply of approx. 50% fresh air.

NOZZLES COOPERATING WITH EXHAUST EXTRACTORS



Below are listed all sorts of nozzles for exhaust extractors.

For selection take into account the diameter, material and accessories.


Sort of the nozzle	Type	Part No.	Connection diameter [mm]	Inlet dimension [mm]	Weight [kg]	Remarks	Cooperating devices
	SZGO-125	819S28	125	Ø150	2,5	rubber circular nozzle with lever pliers, for manual release	ALAN-N, OBS/P, OBP/P-AL, OBP/P, GLOBAL
	SZGO-150	819S29	150	Ø170	3,2		
	SZGP-100	819S18	100	180x100	2,1	rubber oval nozzle with lever pliers, for manual release	ALAN-N, OBS/P, OBP/P-AL, OBP/P, GLOBAL
	SZGP-125	819S19	125	180x100	3,2		
	SZGO-125/S	819S75	125	Ø150	2,5	rubber circular nozzle with lever pliers and steel cable, for automatic release	OBP/P
	SZGO-150/S	819S76	150	Ø170	3,2		
	SZGP-100/S	819S77	100	180x100	2,1	rubber oval nozzle with lever pliers and steel cable, for automatic release	OBP/P
	SZGP-125/S	819S78	125	180	3,2		
	SZGO-125/B	819S70	125	Ø150	2,5	rubber circular nozzle with lever pliers and Bowden cable, for automatic release	OBP/P-AL, OBP/P
	SZGO-150/B	819S71	150	Ø170	3,2		
	SZGP-100/B	819S72	100	180x100	2,1	rubber oval nozzle with lever pliers and Bowden cable, for automatic release	OBP/P-AL, OBP/P
	SZGP-125/B	819S73	125	180x100	3,2		
	SRGP-150-N	819S37	150	Ø175	2,9	rubber oval nozzle, for built-in and shielded exhaust pipes, for manual release (the pliers are inside the exhaust pipe)	ALAN-N, OBS/P, OBP/P-AL, OBP/P, GLOBAL
	AN-100	819S06	100	Ø125	1	metallic nozzle, clamped with a knob, for manual release	ALAN-N, OBS/P, GLOBAL
	AN-125	819S07	125	Ø125	1,2		
	AN-150	819S08	150	Ø150	1,45		
	AN-200	819S00	200	Ø200	2		
	D-150	819S11	150	Ø150	2,2	metallic nozzle, shut-off lid closed by a spring with, for manual release Ø100 and Ø125 mm	GLOBAL

On demand of Customer our nozzles can be adapted for double exhaust pipes.

SUCTION STANDS COOPERATING WITH EXHAUST EXTRACTORS


	Type	Part No.	Connection diameter [mm]	Inlet dimension [mm]	Weight [kg]	Remarks
	S-100-2	818S13	100	Ø230	14	
	S-125-2	818S14	125	Ø230	15	
	S-152	818S04	150	260x205	17	a steel nozzle on a stand

NOZZLE EURO 5/6

	Type	Part No.	Connection diameter [mm]	Inlet dimension [mm]	Weight [kg]	Remarks
	Euro 5/6	819S35	150	400x250	13	

An adjustable mobile nozzle on a stand displacing on wheels, adapted for extraction from exhaust pipes located under the vehicle.
It is recommended to apply a hose of thermal resistance 300°C.

NOZZLE QUICK-CONNECTORS

	Type	Part No.	Connection diameter [mm]	Weight [kg]	Remarks
	SZS-125/100	830S03	125/100	0,6	
	SZS-150/125	830S02	150/125	0,8	
	SZS-150/100	830S04	150/100	0,75	

Reduces the diameter of the nozzle to adapt it to another hose diameter.